

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/764,536	01/17/2001	Vinay Deo	M61.12-0684	8819
75	90 11/21/2003		EXAMINER	
John A. Wiberg			MCARDLE, JOSEPH M	
Westman, Champlin & Kelly International Centre, Suite 1600			ART UNIT	PAPER NUMBER
900 Second Avenue South			2132	
Minneapolis, M	IN 55402-3319		DATE MAILED: 11/21/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

M

							
₩	Application No.	Applicant(s)	1				
	09/764,536	DEO ET AL.	•				
Office Action Summary	Examiner	Art Unit					
	Joseph McArdle	2132	<u> </u>				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1) Responsive to communication(s) filed on 1/17	<u> 7/2001</u> .						
2a)☐ This action is FINAL . 2b)☑ Th	is action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>20-36</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>20-22, 24-27, 29-36</u> is/are rejected.							
7)⊠ Claim(s) <u>23 and 28</u> is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on 17 January 2001 is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☑ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal I	/ (PTO-413) Paper No Patent Application (PT					

Application/Control Number: 09/764,536 Page 2

Art Unit: 2132

DETAILED ACTION

Claim Objections

1. Claim 26 is objected to because of the following informalities: On the last line of claim 26 there is a space needed between the words tag and associated. Appropriate correction is required.

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 29 and 30 are rejected under 35 U.S.C. 102(b) as being anticipated by Barrett (5222137). In regards to claim 29, Barrett discloses a design in column 2, lines 4-15, that includes a radio receiver with a storage means, which is capable of receiving encrypted messages and decrypting them. Barrett further discloses in the aforementioned location that the storage means stores a plurality of encryption keys that are to be used in the decryption process. This disclosure meets the first limitation set forth under claim 29, which calls for having a data structure comprised of an encryption key portion that is indicative of an encryption key used in the decryption of a received message. Barrett then discloses in column 4, lines 32-47, that an encryption key identifier, which is a number or other designation assigned to an encryption key, is used to select the appropriate encryption key and or algorithm (see lines 38-39). This disclosure meets the remaining limitations set forth by claim 29, which call for having and encryption algorithm portion indicative of an encryption algorithm that is used to

Application/Control Number: 09/764,536 Page 3

Art Unit: 2132

encrypt messages and also a key tag portion that is indicative of a key tag associated with the encryption key.

2. In regards to claim 30, the aforementioned rejection of claim 29 disclosed a radio receiver, which includes storage means for storing a plurality of encryption keys having associated key identifiers. This meets the exact limitations of claim 30, which calls for having the data structure stored on the radio receiver.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Parkinson (6088457) in view of Barrett (5222137). In regards to claim 20, the Parkinson reference discloses a design in column 5, lines 11-19, and column 5, lines 40-47 in which a mobile pager is communicated with through the use of a programming address which is stored within the memory of the pager itself. This disclosure meets the first limitation of claim 20, which calls for having address/address tag information indicative of an address over which a mobile device receives messages. Parkinson then discloses in column 5, lines 20-39 that in order for a pager to receive communications it must be enabled to do so. Parkinson further discloses that a window of time can be established upon enabling the communications channel such that

Art Unit: 2132

messages can only be received within the established window of time. This meets the third and last limitations of claim 20, which call for having an expiration date indicative of and expiration date associated with the address along with a status portion indicative of the status of the address. Parkinson, however, makes no mention of having a key index portion indicative of a location where an encryption key associated with the received messages is stored. Barrett teaches in column 1, lines 30-43, that security concerns have lead to a push for allowing radio communication devices to contain multiple keys and/or algorithms. Barrett then discloses in column 4, lines 32-47, that an encryption key identifier, which is a number or other designation assigned to an encryption key, is used to select the appropriate encryption key and or algorithm (see lines 38-39) stored in the encryption circuitry. It would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute Barrett's teachings into Parkinson's design in order to achieve a design that is capable of providing secure communications and also capable of having a key index indicative of a location where an encryption key associated with the received messages is stored.

- 5. In regards to claim 21, The Parkinson reference as described above in the rejection of claim 20 discloses how the status of the address can be either enabled or disabled. Parkinson further discloses in column 8, lines 23-37, the use of enabling/disabling functions that refer to whether a particular address is enabled. This meets the exact limitations set forth by claim 21.
- 6. In regards to claim 22, Parkinson further discloses, as described in the rejection of claim 20 above, that a window of time can be established in order to provide a time

Art Unit: 2132

within which the messages must be processed. This meets the limitations set forth under claim 22.

- 7. In regards to claim 24, Parkinson further discloses in column 8, lines 29-30, that a character string, which is representative of a name, is used to identify an address.

 This meets the exact limitations set forth under claim 24.
- 8. In regards to claim 26, Parkinson and Barrett's design described above meets all of the aforementioned limitations of claim 20. Barrett further discloses a design in column 2, lines 4-15, that includes a radio receiver with a storage means, which is capable of receiving encrypted messages and decrypting them. Barrett then discloses in the aforementioned location that the storage means stores a plurality of encryption keys that are to be used in the decryption process. Barrett then discloses in column 4, lines 32-47, that an encryption key identifier, which is a number or other designation assigned to an encryption key, is used to select the appropriate encryption key and or algorithm (see lines 38-39). It would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute Barrett's teachings on the use of encryption keys/algorithms into Parkinson's design in order to achieve a design that is capable of having another data structure that stores all the encryption key/algorithm information in order to allow for secure communications.
- 9. Claims 27 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Parkinson (6088457) in view of Barrett (5222137). In regards to claims 27 and 31, Parkinson discloses in column 1, lines 17-28, that certain pagers can have group addresses that enables a single message to be sent by a carrier to multiple pagers at

the same time. Parkinson also discloses that the use of group addresses helps to save carrier air time because every device programmed to the group address is able to receive the message. Parkinson then discloses a design in column 5, lines 11-19, and column 5, lines 40-47 in which a mobile pager is communicated with through the use of a programming address (group address), which is stored within the memory of the pager itself. This disclosure meets the first limitation of claims 27 and 31, which calls for having address/address tag information indicative of an address over which a mobile device receives messages. Parkinson then discloses in column 5, lines 20-39 that in order for a pager to receive communications it must be enabled to do so. Parkinson further discloses that a window of time can be established upon enabling the communications channel such that messages can only be received within the established window of time. This meets the third and last limitations of claims 27 and 31, which call for having an expiration date indicative of and expiration date associated with the address (group address) along with a status portion indicative of the status of the address (group address). Parkinson, however, makes no mention of having a key index portion indicative of a location where an encryption key associated with the received messages is stored. Barrett teaches in column 1, lines 30-43, that security concerns have lead to a push for allowing radio communication devices to contain multiple keys and/or algorithms. Barrett then discloses in column 4, lines 32-47, that an encryption key identifier, which is a number or other designation assigned to an encryption key, is used to select the appropriate encryption key and or algorithm (see lines 38-39) stored in the encryption circuitry. It would have been obvious to one of

Art Unit: 2132

ordinary skill in the art at the time the invention was made to substitute Barrett's teachings into Parkinson's design in order to achieve a design that is capable of providing secure communications and also capable of having a key index indicative of a location where an encryption key associated with the received messages is stored.

- 10. In regards to claim 32, Parkinson further discloses in column 8, lines 29-30, that a character string which is representative of a name used to identify an address (group address). This meets the exact limitations set forth under claim 32.
- 11. In regards to claims 35 and 36, Barrett further discloses a design in column 2, lines 4-15, that includes a radio receiver with a storage means, which is capable of receiving encrypted messages and decrypting them. Barrett further discloses in column 4, lines 32-47, that an encryption key identifier, which is a number or other designation assigned to an encryption key, is used to select the appropriate encryption key and or algorithm (see lines 38-39). It would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute Barrett's teachings on storing a data structure on a radio receiver and being able to index into a location containing encryption keys into Parkinson's design in order to achieve a design that is capable of providing secure communications through the use of encryption and specifically through the use of a key index used to access encryption keys.
- 12. Claims 25, 33, and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Parkinson and Barrett as applied to claims 20 and 31 above, and further in view of Laflin. Parkinson and Barrett's design disclosed above meets all of the limitations set forth under claim 31. However, Parkinson and Barrett's design makes no

Art Unit: 2132

mention of providing descriptive text that is indicative of the message received over the communications channel. Laflin discloses in column 1, lines 15-21, that call receivers (pagers) can receive messages sent by information services and that the messages can include information such as sports information or stock market information. Laflin further discloses in column 3, lines 13-16, that the header portion of a message contains information that describes the types of messages that are being received and stored on the pager. It would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute Laflin's teachings on the use of descriptive names used to describe the messages being received into Parkinson and Barrett's design in order to achieve a design that is capable of providing an indication about what the subject matter of the message is.

13. In regards to claim 34, Parkinson and Barrett's design disclosed above meets all of the aforementioned limitations set forth by claim 31. However, Parkinson and Barrett's design makes no mention of service group codes having associated addresses, which are stored in locations according to the address and service group codes. Laflin discloses in column 4, lines 51-63, that messages are stored in a message memory on a pager according to categories that are representative of what type of message it is (what service group code it belongs to). It would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute Laflin's teachings on storing messages in a message memory into Parkinson and Barrett's design in order to achieve a design that is capable of storing messages

Art Unit: 2132

according to service group codes and also make it easier to identify messages

belonging to a particular service group code.

Allowable Subject Matter

14. Claims 23 and 28 are objected to as being dependent upon a rejected base

claim, but would be allowable if rewritten in independent form including all of the

limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Joseph McArdle whose telephone number is (703) 305-

7515. The examiner can normally be reached on Weekdays from 8:00 am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Gilberto Barron can be reached on (703) 305-1830. The fax phone number

for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 305-

3900.

Joseph McArdle

Page 9

Examiner

Art Unit 2132

jmm

GILBERTO BARRON

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2100